From the INTERNATIONAL SEARCHING AUTHORITY

To: JOHN P. WHITE COOPER & DUNHAM LLP 1185 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10036	PCT NOTIFICATION OF TRANSMITTAL OF		
·	THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION		
-	(PCT Rule 44.1)		
	Date of Mailing (day/month/year)		
Applicant's or agent's file reference	FOR FURTHER ACTIC See paragraph and albelow		
62166-A-PCT/			
International application No.	International findate date (day/month/ye 31 AUGUST 2001		
PCT/US01/27256			
Applicant THE TRUSTEES OF COLUMBIA UNIVERSITY IN TH	E CITY OF NEW YORK		
Eiling of amendments and statement under Artic	onal search report has been established and is transmitted herewith.		
When? The time limit for filing such amend	d the claims of the international application (see Rule 46): ments is normally 2 months from the date of transmittal of the		
international search report; however, f	for more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau o 5+, chemin des Colomb 1211 Geneva 20, Switz Facsimile No.: (+1-22)	pettes zerland		
For more detailed instructions, see the notes o	on the accompanying sheet.		
2. The applicant is hereby notified that no internatio Article 17(2)(a) to that effect is transmitted herew	nal search report will be established and that the declaration under with.		
3. With regard to the protest against payment of (ar	n) additional fee(s) under Rule 40.2, the applicant is notified that:		
the protest together with the decision there the applicant's request to forward the text Offices.	on has been transmitted to the International Bureau together with sof both the protest and the decision thereon to the designated		
no decision has been made yet on the prote	est; the applicant will be notified as soon as a decision is made.		
+ Further action(s): The applicant is reminded of the	following:		
Shortly after 18 months from the priority date, the inte If the applicant wishes to avoid or postpone publicat priority claim, must reach the International Bureau completion of the technical preparations for interna	· · · · · · · · · · · · · · · · · · ·		
wishes to postpone the entry into the national phase	international preliminary examination must be filed if the applicant until 30 months from the priority date (in some Offices even later).		
Within 20 months from the priority date, the applicant before all designated Offices which have not been eleptropriority date or could not be elected because they a	must perform the prescribed acts for entry into the national phase ected in the demand or in a later election within 19 months from the are not bound by Chapter II.		
Name and mailing address of the ISA/US	Authorized officer funcil ford ANNE-MARIE BAKER, PH.D.		
Commissioner of Patents and Trademarks Box PCT	ANNE-MARIE BAKER, PH.D.		
Washington, D.C. 20231	Telephone No. (703) 308-0196		
Facsimile No. (703) 305-3230	Telephone ito. (100) vontage		

Form PCT/ISA/220 (July 1998)*

Applicants: Thomas M. Jessell et al. Serial No.: 09/654,462 Filed: September 1, 2000

Exhibit B



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of (Form PCT/ISA/s	Transmittal of International Search Report 1920) as well as, where applicable, item 5
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US01/27256	81 AUGUST 2001	01 SEPTEMBER 2000
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Applicant	NIVERSITY IN THE CITY OF NEW YO	RK
THE TRUSTEES OF COLUMNIA C	THE COLUMN TO TH	.!!! 1 6 2004
	10 1	Joseph Control of the
This international search report has been	n prepared by this International Searching Au g transmitted to the International Bureau.	CHECF PETITORS
This international search report consis	ts of a total of L sheets.	
	opy of each prior art document cited in this	report.
1. Basis of the report		pacie of the international application in the
a With regard to the language, the	ne international search was carried out on the unless otherwise indicated under this item.	oasis of the international application in the
the international search was	carried out on the basis of a translation of the	ne international application furnished to this
Authority (Rule 23.1(b)).		·
 b. With regard to any nucleotide a was carried out on the basis of 	and/or amino acid sequence disclosed in the in the sequence listing:	nternational application, the international search
contained in the internation	al application in written form.	·
filed together with the inter	national application in computer readable fo	rm.
furnished subsequently to th	is Authority in written form.	
L	is Authority in computer readable form.	
the	quently furnished written sequence listing of	
the statement that the informa furnished.	tion recorded in computer readable form is ide	ntical to the written sequence listing has been
2. Certain claims were found	unsearchable (See Box 1).	•
3. Unity of invention is lackin	g (See Box II).	
4. With regard to the title,		
	nitted by the applicant.	
النا ا	by this Authority to read as follows:	
the text has been established	by this Authority to read as follows.	·.
5. With regard to the abstract,		
X the text is approved as subn	nitted by the applicant.	
	, according to Rule 38.2(b), by this Authori	ty as it appears in
Box III. The applicant may, v	vithin one month from the date of mailing of	this international
· ·	blished with the abstract is Figure No.	
as suggested by the applican	t	X None of the figures.
because the applicant failed	to anomat a figure	٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠ ٠
because this figure better ch	aracterizes the invention.	

Form PCT/ISA/210 (first sheet) (July 1998)*

فالأناف والمعرب والماكر والأفراء ووجم

IPC(7) :: US CL :: According to B. FIEL Minimum de U.S. : 4	SIFICATION OF SUBJECT MATTER C12N 5/00, 5/02, 15/63, 15/85, 15/87 +35/4, 325, 366, 368, +55 o International Patent Classification (IPC) or to both DS SEARCHED ocumentation searched (classification system followed +35/4, 325, 366, 368, +55 ion searched other than minimum documentation to	by classification symbols)	icluded in the fields
searched			
	ata base consulted during the international search (n. Extra Sheet.		1 6 2004
C. DOC	UMENTS CONSIDERED TO BE RELEVANT	OFFICE	OF PETITION'S
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.
A	BRISCOE et al. A homeodomain protectel identity and neuronal fate in the very May 2000, Vol. 101, pages 435-445, s	entral neural tube. Cell. 12	1-24
A	MIRMIRA et al. Beta-cell differential distinct DNA binding interference and domains. J. Biol. Chem. 12 May 200 14743-14751, see entire document.	nd transcriptional repression	1-24
A	OSTER et al. Homeobox gene production nuclei of endocrine cells of rat and mand Cytochem. 1998, Vol. 46, No. document.	ouse stomach. J. Histochem	1-24
X Furt	her documents are listed in the continuation of Box (
"A" do to	secial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance riter document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is ted to establish the publication date of another citation or other ecial reason (as specified) cument referring to an oral disclosure, use, exhibition or other eans	"A" later document published after the in date and not in conflict with the ap the principle or theory underlying the principle or theory underlying the considered novel or cannot be considered novel or cannot be considered used to cannot be considered to involve an inventive stewith one or more other such document to a person skilled in the armodern document member of the same pater."	plication but cited to understand be invention the claimed invention cannot be be ered to involve an inventive step the claimed invention cannot be p when the document is combined the combination being
th	an the priority date claimed actual completion of the international search	Date of mailing of the international	search report
	EMBER 2001	15 JAN 20	002
Box PCT	on, D.C. 20231	Authorized officer ANNE-MARIE BAKER, PH.D. Telephone No. (703) 308-0196	e ford



International application No. PCT/US01/27256

Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	SCHWITZGEBEL et al. Expression of neurogenin3 reveals an islet cell precursor population in the pancreas. 2000, Vol. 127, pages 3533-3542, see entire document.		1-24
		P	ECEIVED
			JL 1 6 2004
			E OF PETTIONS
	•		
	·		

B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

WEST

Dialog (file: medicine)

search terms: Nkx6.1, Nkx6.2, briscoe, ericson, rubenstein, sander, stem(w)cell, neuron?

NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims 1:
 —Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 —Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:

 "Claims 1-10 tenchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 44.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if immisted into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It should not contain any disparaging comments on the international search report or the relevance of citations contained in the report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Buresu, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.